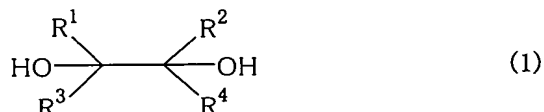


# ABSTRACT

There is provided a process for the production of carbonyl compounds, characterized by reacting a diol represented by the formula (1);



wherein  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are the same or different, and independently represent a substituted or unsubstituted alkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted acyl group, a substituted or unsubstituted alkoxy carbonyl group, a substituted or unsubstituted aryloxy carbonyl group, a substituted or unsubstituted aralkyloxy carbonyl group, carboxyl group or a hydrogen atom, or  $\text{R}^1$  and  $\text{R}^2$  or  $\text{R}^3$  and  $\text{R}^4$  are bonded together with the carbon atoms to which they are bonded to form a ring, provided that all of  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  are not hydrogen atoms simultaneously; with bromine or an inorganic bromine compound in the presence of a trivalent bismuth compound and a base to form carbonyl compounds represented by the formula (2);



wherein  $\text{R}^1$  and  $\text{R}^3$  are as defined above; and the formula (3);



wherein  $\text{R}^2$  and  $\text{R}^4$  are as defined above.